

~~Patent claims~~

*what is claimed is -*

1. A method for predicting measurement data until a final time-point using given measurement data, in which:
- 5       a) a stochastic process is matched to the given measurement data;
- b) simulation runs of the stochastic process are carried out from a given time-point until the
- 10       final time-point;
- c) the forecast measurement data is determined for each simulation run;
- d) measurement data is predicted by stating a range of values, which is determined by the forecast
- 15       measurement data.
2. The method as claimed in claim 1, in which:
- a confidence range is determined for the prediction of measurement data, where the a% lowest and b% highest forecast measurement data
- 20       are eliminated.
3. The method as claimed in claim 2, in which:
- a% and b% are equal.
- 25       4. The method as claimed in one of the preceding claims, in which:
- the stochastic process is a non-homogeneous Poisson process.
- 30       5. The method as claimed in one of the preceding claims, in which:
- the measurement data represents numbers of errors.
- 35       6. The method for predicting measurement data using given measurement data, in which:
- a) a stochastic process is matched to the given measurement data;

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b) a range is ascertained, by sorting the probability values generated by the

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stochastic process according to size, around an expected value;

c) measurement data is predicted within the limits of the range.

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7. The method as claimed in claim 6, in which: the probability values generated by the stochastic process are sorted symmetrically by size around the expected value.

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8. An arrangement for predicting measurement data until a final time-point using given measurement data, whereby a processor unit is provided and configured in such a way that:

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a) a stochastic process can be matched to the given measurement data;

b) simulation runs of the stochastic process can be carried out from a given time-point until the final time-point;

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c) the forecast measurement data can be determined for each simulation run;

d) measurement data is predicted by stating a range of values, which is determined by the forecast measurement data.

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9. An arrangement for predicting measurement data using given measurement data, whereby a processor unit is provided and configured in such a way that:

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a) a stochastic process can be matched to the given measurement data;

b) a range can be ascertained by sorting probability values generated by the stochastic process according to size around an expected value;

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c) the measurement data is predicted within the limits of the range.

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